CLAIMS

- A method for producing a resin fine particle, which comprises a step 1 of heating and/or
 pressurizing a mixture of a resin and a fluid in which the resin is not dissolved in a normal temperature and normal pressure for making at least one component of the fluid supercritical state or subcritical state and a step 2 of decreasing the temperature of the fluid for releasing the
 pressure.
- 2. A method for producing a resin fine particle, which comprises a step 1 of air-tightly sealing a mixture of a resin and a fluid in which the resin is not dissolved in a normal temperature and normal pressure in a pressure resistant container and heating the pressure resistant container for making at least one component of the fluid supercritical state or subcritical state and a step 2 of quenching the pressure resistant container for releasing the pressure.
 - 3. The method for producing a resin fine particle according to Claim 1 or 2,

wherein the fluid contains a substance that is present in a liquid form at a normal temperature and normal pressure.

- 4. The method for producing a resin fine particle according to Claim 1 or 2,
- 30 wherein the fluid contains water and/or alcohol.
 - 5. The method for producing a resin fine particle according to Claim 1, 2, 3 or 4, $\frac{1}{2}$

wherein the resin is a recycled one.

- 6. A resin fine particle, which is obtained by the method for producing a resin fine particle according to Claim 1, 2, 3, 4, or 5.
- 7. The resin fine particle according to Claim 6, wherein the particle diameter is 1 μm or smaller.
- The resin fine particle according to Claim 6 or 7, wherein the CV value of the particle diameter is 5%
 or lower.
 - The resin fine particle according to Claim 6, 7, or 8,

wherein the sphericity is 1.25 or lower.

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- 10. A polyolefin resin fine particle which comprises a polyolefin resin having a weight average molecular weight of 200,000 or higher.
- 20 11. The polyolefin resin fine particle according to Claim 10, wherein the weight average molecular weight of the

polyolefin resin is 1,000,000 or higher.

- 25 12. A polyolefin resin fine particle, which comprises a polyolefin resin having an MI value of 10 or lower.
- 13. The polyolefin resin fine particle according to 30 Claim 10, 11, or 12,

wherein the polyolefin resin contains neither a surfactant nor a suspension stabilizer.

14. A polyester resin fine particle,35 which comprises an un-crosslinked polyester resin.

15. The polyester resin fine particle according to Claim 14,

wherein the polyester resin contains neither a surfactant nor a suspension stabilizer.

16. An acrylic resin fine particle, which contains neither a surfactant nor a suspension stabilizer.

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- 17. The acrylic fine particle according to Claim 16, which contains neither a sulfonium salt nor a sulfate acid salt.
- 15 18. The acrylic resin fine particle according to Claim 16 or 17,

wherein the acrylic resin is obtained by polymerizing poly(methyl methacrylate).